BRUHAT BENGALURU MAHANAGARA PALIKE

IMPROVEMENTS TO ROADS AND DRAINS AT KATARAYANAGARA IN WARD NO.14, BAGALAGUNTE, DASARAHALLI SUB-DIVISION

SL. NO. 07, G.O. NO. 89 (PACKAGE NO. - DHZ 01)

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (PW,P& IWTD SR 2018-19, Pg No 139 Item No.18.20)										
	Dismantling of Drain Slab										
	Maruthinagar main road	0.00	75.00	Cum	1	75.00	0.90	0.10	6.75		
	Total								**6.75**	**413.40**	**2,790.45**
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)										
	Earthwork for Kerb										
	Maruthinagar main road	0.00	75.00	Cum	1	75.00	0.20	0.10	1.50		
	3rd Cross Road	0.00	100.00	Cum	2	100.00	0.20	0.10	4.00		
	Shanimahathma Temple Road	0.00	479.00	Cum	1	479.00	0.20	0.10	9.58		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	2	110.00	0.20	0.10	4.40		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	2	80.00	0.20	0.10	3.20		
	Desilting of Culvert										
	3rd Cross Road			Cum	1	6.50	1.20	0.45	3.51		
	Desilting of Drain										
	Maruthinagar main road	0.00	75.00	Cum	1	75.00	0.60	0.50	22.50		
	3rd Cross Road	0.00	100.00	Cum	2	100.00	0.60	0.50	60.00		
	Drain Connecting SWD of 3rd Cr Rd	0.00	80.00	Cum	1	80.00	0.60	0.50	24.00		
	Excavation for New Drain										
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	2	80.00	0.90	0.90	129.60		
	RWH @ every 100m intervel			Cum	11		0.31	1.80	6.17		
	Total								**268.46**	**137.80**	**36,994.19**
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301 (PW,P & IWTD SR 2018-19, Item No.19.14, Page No.143)										
	Shanimahathma Temple Road										
	BWSSB Cut Portion	0.00	245.00	Cum	1	245.00	2.20	0.275	148.23		

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	BWSSB Cut Portion	245.00	479.00	Cum	1	234.00	1.00	0.275	64.35		
	New Road Formation										
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	1	110.00	4.60	0.375	189.75		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	1	80.00	7.00	0.375	210.00		
									612.33	**43.46**	**26,611.64**
4	KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PW,P& IWTD SR 2018-19 P-13, I-4.7)										
	M10 Concrete - PCC For Kerb										
	Maruthinagar main road	0.00	75.00	Cum	1	75.00	0.20	0.10	1.5		
	3rd Cross Road	0.00	100.00	Cum	2	100.00	0.20	0.10	4.00		
	Shanimahathma Temple Road	0.00	479.00	Cum	1	479.00	0.20	0.10	9.58		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	2	110.00	0.20	0.10	4.40		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	2	80.00	0.20	0.10	3.20		
	For New Drain										
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	2	80.00	0.90	0.15	21.60		
									44.28	**5714.97**	**2,53,058.72**
5	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height. (PW,P& IWTD SR 2018-19 P-227, I-28.7.12)										
	For New Drain										
	Raft Concrete										
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	2	80.00	0.90	0.15	21.60		
	Wall Concrete										
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	4	80.00	0.60	0.15	28.80		
									50.40	**5775.37**	**2,91,078.85**
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500(PW,P& IWTD SR 2018-19, Pg No 229 Item No.28.8.2)										
						Drain concrete quantity			50.40		
	Quantity at 60 kg/ Cum			Tonne					**3.02**		
									3.02	**72,326.98**	**2,18,716.79**
7	Removing and resetting of footpath slab (PW,P& IWTD SR 2018-19 P-270, I-37.56)										
	3rd cross Road	0.00	100.00	Sqm	2	100.00	0.90		180.00		
	Drain Connecting SWD of 3rd Cr Rd	0.00	80.00	Sqm	1	80.00	0.90		72.00		

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Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	Total								**252.00**	**208.82**	**52,622.64**
8	KSRB 15.2.2 : Providing ruled pointing 20 mm deep to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. (PW,P& IWTD SR 2018-19 P-115, I-15.8)										
	Drain Connecting SWD of 3rd Cr Rd	0.00	80.00	Sqm	1	80.00	0.90		72.00		
									72.00	**49.06**	**3,532.18**
9	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges. (Data Rate)										
	For Drain cover slab										
	Maruthinagar main road	0.00	75.00	Sqm	1	75.00	0.90		67.50		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	2	80.00	0.90		144.00		
	Total								**211.50**	**1615.00**	**3,41,572.50**
10	KSRRB M200-24. **Dismantling of cement concrete pavement by mechanical means** using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications.MORTH Specification No. 202 (PW,P & IWTD SR 2018-19, Item No. 18.47, Page										
	3rd Cross Road	0.00	100.00	Cum	1	100.00	5.50	0.15	82.50		
	Total								**82.50**	**952.94**	**78,617.55**
11	KSRRB 300-48. Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 (PW,P & IWTD SR 2018-19, Item No. 19.54, Page No.146)										
	Road Formation										
	3rd Cross Road	0.00	100.00	Sqm	1	100.00	5.50		550.00		
	Total								**550.00**	**25.44**	**13,992.00**
12	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3 (PW,P& IWTD SR 2018-19, Pg No 147 Item No.19.64)										
	Road Formation										
	3rd Cross Road	0.00	100.00	Sqm	1	100.00	5.50		550.00		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Sqm	1	110.00	4.60		506.00		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	1	80.00	7.00		560.00		
	Total								**1616.00**	**6.36**	**10,277.76**
13	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (PW,P& IWTD SR 2018-19 P-153, I-20.6)										
	Road Formation										
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	1	110.00	4.60	0.15	75.90		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	1	80.00	7.00	0.15	84.00		
									159.90	**1855.00**	**2,96,614.50**

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
14	**CONCRETE PAVEMENT** **KSRRB M600- Cement Concrete Pavements** KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (PW,P& IWTD SR 2018-19 P-174, I-22.1.2)										
	3rd Cross Road	0.00	100.00	Cum	1	100.00	5.50	0.10	55.00		
	Total								**55.00**	**3944.51**	**2,16,948.00**
15	KSRRB M400-17. Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. (PW,P& IWTD SR 2018-19, Pg No 155, Item No. 20.18)										
	3rd Cross Road	0.00	100.00	Cum	1	100.00	5.50	0.10	55.00		
	Shanimahathma Temple Road										
	BWSSB Cut Portion	0.00	245.00	Cum	1	245.00	2.20	0.225	121.28		
	BWSSB Cut Portion	245.00	479.00	Cum	1	234.00	1.00	0.225	52.65		
	Road Formation										
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	1	110.00	4.60	0.225	113.85		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	1	80.00	7.00	0.225	126.00		
	Total								**468.78**	**2001.28**	**9,38,150.03**
16	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (PW,P& IWTD SR 2018-19, Pg No 176 Item No. 22.6.1)										
	3rd Cross Road	0.00	100.00	Cum	1	100.00	5.50	0.16	88.00		
	Total								**88.00**	**5354.02**	**4,71,153.92**

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Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
17	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision (PW,P& IWTD SR 2018-19, Pg No 158, Item No. 21.2)										
	Cleaning Existing BT Surface										
	Shanimahathma Temple Road	0.00	479.00	Sqm	1	479.00	7.50		3592.50		
									3592.50	**5.30**	**19,040.25**
18	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision (PW,P& IWTD SR 2018-19, Pg No 158 Item No.21.6)										
	Over WMM										
	Shanimahathma Temple Road										
	BWSSB Cut Portion	0.00	245.00	Sqm	1	245.00	2.20		539.00		
	BWSSB Cut Portion	245.00	479.00	Sqm	1	234.00	1.00		234.00		
	Road Formation										
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Sqm	1	110.00	4.60		506.00		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	1	80.00	7.00		560.00		
									1839.00	**33.92**	**62,378.88**
19	KSRRB 500-9. Providing and applying tack coat using 80/100 grade bitumen (VG10) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision.(PW,P & IWTD Bengaluru Circle SR 2018-19, Item No.21.9 Page No.158).										
	Over WMM										
	Shanimahathma Temple Road										
	BWSSB Cut Portion	0.00	245.00	Sqm	1	245.00	2.20		539.00		
	BWSSB Cut Portion	245.00	479.00	Sqm	1	234.00	1.00		234.00		
	Road Formation										
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Sqm	1	110.00	4.60		506.00		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	1	80.00	7.00		560.00		
									1839.00	**21.20**	**38,986.80**
20	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision (PW,P& IWTD SR 2018-19 P-158, I-21.7).										
	For Existing BT Surface										
	Shanimahathma Temple Road	0.00	479.00	Sqm	1	479.00	7.50		3592.50		
	Over DBM										
	Shanimahathma Temple Road	0.00	479.00	Sqm	1	479.00	7.50		3592.50		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Sqm	1	110.00	4.60		506.00		

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	1	80.00	7.00		560.00		
									8251.00	**12.72**	**1,04,952.72**
21	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix towork site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(PW,P & IWTD Bengaluru Circle SR 2018-19, Item No. 160 Page No.21.17.6)										
	Dense Bitumen Macadam										
	Shanimahathma Temple Road										
	BWSSB Cut Portion	0.00	245.00	Cum	1	245.00	2.20	0.05	26.95		
	BWSSB Cut Portion	245.00	479.00	Cum	1	234.00	1.00	0.05	11.70		
	Shanimahathma Temple Road	0.00	479.00	Cum	1	479.00	7.50	0.05	179.63		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	1	110.00	4.60	0.05	25.30		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	1	80.00	7.00	0.05	28.00		
									271.58	**7,428.48**	**20,17,389.4**
22	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015. -do- using 40-60 TPH capacity HMP with mechanical paver grading II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade} and 0.43% of plastomeric thermoplastics (waste plastic) (PW,P & IWTD Bengaluru Circle SR 2018-19, Item No. 171 Page No.21.78.12)										
	Bituminous Concrete										
	Shanimahathma Temple Road	0.00	479.00	Cum	1	479.00	7.50	0.04	143.70		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Cum	1	110.00	4.60	0.04	20.24		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Cum	1	80.00	7.00	0.04	22.40		
									186.34	**8699.42**	**16,21,049.92**
23	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202 (PW,P& IWTD SR 2018-19, Pg No 141 Item No.18.49)										
	Maruthinagar main road	0.00	75.00	M	1	75.00			75.00		
	3rd Cross Road	0.00	100.00	M	2	100.00			200.00		
	Total								**275.00**	**12.72**	**3,498.00**
24	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (PW,P& IWTD SR 2018-19, Pg No 27 Item No.5.30)										
	New Kerb										

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Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	Maruthinagar main road	0.00	75.00	Nos	1	167.00 (75.00 divided by 0.45)			167.00		
	3rd Cross Road	0.00	100.00	Nos	2	223.00 (100.00)			446.00		
	Shanimahathma Temple Road	0.00	479.00	Nos	1	1065.00 (479.00)			1065.00		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Nos	2	245.00 (110.00)			490.00		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Nos	2	178.00 (80.00)			356.00		
	Total								**2524.00**	**435.84**	**11,00,051.35**
25	KSRRB M800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications,MORTH Chapter 8 (PW,P& IWTD SR 2018-19, Pg No 180, Item No. 24.1)										
	Kerb painting										
	Maruthinagar main road	0.00	75.00	Sqm	1	75.00	0.35		26.25		
	3rd Cross Road	0.00	100.00	Sqm	2	100.00	0.35		70.00		
	Shanimahathma Temple Road	0.00	479.00	Sqm	1	479.00	0.35		167.65		
	Ganapathi Nagar 1st Main - 2nd Cr Rd	0.00	110.00	Sqm	2	110.00	0.35		77.00		
	Sheshadri Layout 2nd Cross Road	0.00	80.00	Sqm	2	80.00	0.35		56.00		
									396.90	**84.80**	**33,657.12**
	Removal of Unservicable soil, Loading, unloading and Cost of Haulage										
26	KSRRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications MORTH Specification No. 301. (PW,P& IWTD SR 2018-19, Pg No 144, Item No.19.20)										
	Vide Item No 2, 3 .			Cum					880.79		
									880.79	**34.98**	**30,809.96**
27	KSRRB M-100-1 Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH - 100 / Chapter 1, (PW,P& IWTD SR 2018-19, Pg No 136, Item No.17.1)										
	Vide Item No 1, 10, 11 & 23.			Cum					188.25		
									188.25	**57.00**	**10,730.25**

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
28	KSRRB M100-4.1. Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-I surface road (PW,P& IWTD SR 2018-19, Pg No 136, Item No.17.4)										
	Vide Item No 26 & 27.			Cum					1069.04		
									1069.04	74.24	**79,365.38**
	Rain Water Harveting										
29	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications										
	a) 40mm Jelly.			Cum	11	0.31		0.40	1.37	1901.00	**2607.73**
						(3.142*0.63*0.63)/4					
	b) 20mm Jelly.			Cum	11	0.31		0.40	1.37	1901.00	**2607.73**
	c) Coarse sand.			Cum	11	0.31		0.30	1.03	2651.00	**2727.41**
	d) Fine Sand			Cum	11	0.31		0.20	0.69	2651.00	**1818.28**
	e) 12.5mm chips			Cum	11	0.31		0.30	1.03	1901.00	**1955.80**
30	Supplying and erection of R.C.C Rings for well steining of 0.3m depth using M-20 grade cement concrete using clean graded granite or trap or jelly of approved quality 20mm and down size well compated includig centering, from work and plastering for both faces with C.M.1:3 proportion as per design using 6.5m M.S. Coil at the rate of 10 KGs/ring including cost of steel and fabrication bailling out of water, errection etc., For 0.90m dia(clear) ring of steining thickness 0.075 Mtrs. (QUOTATION)										
	0.63m dia HDPE Perforated Pipe. For 1.8 Mtr depth,			Rmt	19.80				19.80		
									19.80	10822.32	**214281.96**

BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer
Dasarahalli Division
MEI Layout. Hesaragatta main road,
...lore.560073

/2019-20

BRUHAT BENGALURU MAHANAGARA PALIKE

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
31	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.			Sqm	11		0.31		3.43	71.03	243.59
										Total Cost	86,00,884.32
	KRIDL Charges @ 1 % On Construction cost										86,008.84
	GST at 12% of Tender Amount										10,32,106.12
	Preparation of DPR 1.0%										86,008.84
	PMC Charges & Quality Control Charges at 1.0%										86,008.84
	Miscellaneous & unforeseen charges										8,983.04
										GRAND TOTAL	99,00,000.00

Technically Sanctione for Rs. 99,00,000.00
Rs. In words Ninenty Nine lakh only
Under P-3727 Sc-SP/TSP Mukya Mantrigala Nava Bengalore / Nava Nagarathana Yojana
Job Code No 014-20-000017
Registered as CE No. 65 / 19-20 Subject to conditions contained in Enclosed
No. CE/P2/TS / 65 / 19-20 Dt: 16/11/2019
AE/JE. 16/11/19 16/11/2019

CERTIFICATE:

i this work comes within BBMP limits
ii Certified that Personaly Inspected the Work Spot.
iii Certified that the estimate is prepared based on CSR of PWD Bangalore Circle 2018-19.
iv Estimate is prepared Making Use of essential item of work as per site Conditions in safest way of Execution in most economical way.
v This work is not included in any other program of work.

For Alcon Consulting Engineers (India) Pvt. Ltd.

Authorised Signatory
Alcon Consulting Engineers (I) Pvt. Ltd.,
Bengaluru

Assistant Engineer,
Ward No-14
BBMP

Assistant Executive Engineer,
~~Shettyhalli/Dasarahalli/PIA/Hegganahalli~~
Division
BBMP

Executive Engineer,
Dasarahalli Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs 99.00
(Rupees Ninenty Nine lakh only
Under the Head of Account P-3727 Sc-SP/TSP Mukya Mantrigala Nava Bengalore / Nava Nagarathana Yojana
Registered as no EE(D.D.)/AS. 174/19-20 Subject to conditions contained in Enclosed Memo
No EE/DD/AS / 174/19-20 Dt: 14/11/2019
JE/AE. Exe. Eng. (DASARAHALLI) BBMP

ALCON CONSULTING ENGINEERS INDIA PVT. LTD.